

REPORT

SUPPLEMENT TO
REPORT NO.

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NEW BOOKS ON ENGINEERING SCIENCES

(Published by Akademkniga, Acad Sci USSR)

1. "Reports on Scientific Works for 1943" (Referaty nauchnykh rabot za 1943 g.), Dept Tech Sci, Acad Sci USSR, 1945, 60 pp, 5 rubles.
2. "Reports on Scientific Research Works for 1944" (Referaty nauchnykh rabot za 1944 g.), Dept Tech Sci, Acad Sci USSR, 1945, 116 pp, 9 rubles.
3. "Reports on Scientific Research Works for 1945" (Referaty nauchnykh rabot za 1945 g.), Dept Tech Sci, Acad Sci USSR, 1947, 188 pp, 15 rubles.
4. "Ferromagnetic and Magnetodynamic Problems" (Problemy ferromagnetizma i magnetodinamiki), edited by V. K. Arkad'yev, Corr Mem, Acad Sci USSR, 1946, 176 pp, 17 rubles.

Machine Studies

5. Akimov, G. V., Corr Mem, Acad Sci USSR, Akimova, K. I., "A Uniform Specification of Metallic Materials in USSR Machine Construction" (Yednaya spetsifikatsiya metallicheskih materialov mashinostroyeniya SSSR), 1945, 214 pp, 16 rubles.
6. Artobolevskiy, I. I., Artobolevskiy, S. I., Yulin, V. A., Shaumyan, G. A., "Method for Analyzing Automatic Machines" (Metody analiza mashin-avtomatov), Part II, Kinematic and Kinostatic Analysis, 1949, 250 pp, 38 rubles.
7. Borodachev, K. A., Dr Tech Sci, "Basis for Methods of Calculating Permissible Variations and Errors in Dimensional and Kinematic Chains" (Osnovaniya metodiki rascheta dopuskov i oshibok razmornykh i kinematicheskikh tsepy). Part II, Vector Errors, Combined Errors, Influence of Regulation, 1946, 288 pp, 17 rubles.
8. "Dynamics and Strength of Crankshafts" (Dinamika i prochnost' kolenchatykh valov), a collection of articles edited by S. V. Serensen, 1948, 412 pp, 30 rubles.

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9. D'yachenko, P. Ye., "Surface Quality of Aircraft Engine Parts" (Kachestvo poverkhnosti istalei aviatsionnogo motora), 1946, 72 pp, 8 rubles.
10. "New Means of Measuring Thickness" (Novyye vity izmereniya tolszhchin), a collection of articles, 1946, 80 pp, 3 rubles 50 kopeks.
11. Petrov, P. N., "Hydrodynamic Theory of Lubrication" (Gidrodinamicheskaya teoriya smazki), selected works with comments by Academician L. S. Leybenzon, 1948, 550 pp, 26 rubles.
12. "Friction and Wear of Machines" (Treniye i iznos v mashinakh), 1946, 136 pp, 8 rubles 50 kopeks.

Collection of articles: Influence of deformation on abrasion of steel; calculation of sliding friction bearings which operate within the range of fluid friction; influence of alignment of machined tracks on the force of friction, etc.

13. "Friction and Wear of Machines" (Treniye i iznos v mashinakh), Works of Second All-Union Conference on Friction and Wear of Machines, Vol I, Reports, 1947, 378 pp, 30 rubles.

Sections are: (1) Problems on Theory and Studies of Friction, Lubrication and Wear; (2) Prevention of Wear in Machines; and (3) Antifriction and Wear-Resistant Materials.

14. Ibid, Vol II, Sec IV, Lubricating Materials and Lubrication Technique, 1948, pp 385 - 599, 20 rubles.

Volume contains 26 reports, pertinent to problems on lubrication oils, their utilization, thickening and dilution, etc.

15. Ibid, Vol III, Reports, 1949, 236 pp, 20 rubles.
16. "Works of Seminar on Theory of Machines and Mechanisms" (Trudy Seminara po teorii mashin i mekhanizmov) Vol II, 1947, 208 pp.
17. Ibid, Vol III, No 9, 1947, 76 pp, 5 rubles.
18. Ibid, Vol III, No 10, 1947, 71 pp, 4 rubles.
19. Ibid, Vol III, No 11, 1947, 64 pp, 4 rubles.
20. Ibid, Vol III, No 12, 1947, 64 pp, 4 rubles.
21. Ibid, Vol IV, No 13, 1948, 77 pp, 4 rubles.
22. Ibid, Vol IV, No 14, 1948, 70 pp, 4 rubles.
23. Ibid, Vol IV, No 15, 1948, 91 pp, 5 rubles.
24. Ibid, Vol IV, No 16, 1948, 45 pp, 3 rubles.
25. Ibid, Vol V, No 17, 1948, 78 pp, 5 rubles.
26. Ibid, Vol V, No 18, 1948, 82 pp, 6 rubles.
27. Ibid, Vol V, No 19, 1948, 101 pp, 6 rubles.
28. Ibid, Vol V, No 20, 1948, 107 pp, 6 rubles.
29. Ibid, Vol VI, No 21, 1949, 71 pp, 4 rubles.

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Metallurgy

30. Baykov, A. A., Acad, "Collection of Works" (Sobraniye trudov) Vol II, 1948, 590 pp, 45 rubles.
Works on metallurgy, theory of metallurgical processes, general and physical chemistry.
31. Ibid, Vol V, 1948, 270 pp, 28 rubles.
Works on binders and refractory materials.
32. Bardin, I. P., Acad, "Prospects of Developing Charcoal Metallurgy in the Ural Region" (Perspektivy razvitiya drevesnougol'noy metallurgii na Urale), 1945, 48 pp, 2 rubles.
33. Bardin, I. P., Acad, Probst, A. Ye., Prof, and Rikman, V. V., Docent, "Metallurgical Problems in the Northwest" (Problemy severozapadnoy metallurgii), 1946, 144 pp, 10 rubles.
34. "Deformation of Nonferrous Alloys" (Deformiruyemost' tsvetnykh splavov), 1947, 218 pp, 13 rubles.
35. Pavlov, M. A., "Cast Iron Metallurgy" (Metallurgiya chuguna), Part I, 1948, 250 pp, 16 rubles.
36. "Works of the Third All-Union Conference on Refractory Materials" (Trudy 3-go vsesoyuznogo soveshchaniya po ognepornym materialam) 1947, 200 pp, 11 rubles.
37. Chizhikov, D. M., Corr Mem, Acad Sci USSR "Metallurgy of Heavy Nonferrous Metals" (Metallurgiya tyazhelykh tsvetnykh metallov), 1948, 1,056 pp, 74 rubles.

Mechanics

38. Arkhangel'skiy, V. A., "Computations on Irregular Motion in Water Drains" (Raschety neustanovivshegosya dvizheniya v otkrytykh vodostokakh), 1947, 136 pp, 8 rubles.
39. "Engineering Symposium" (Inzhenernyy sbornik), Vol II, 1946, 136 pp, 12 rubles.
Consists of nine articles on regulating steam pressure, solution of systems of equations of three moments, etc.
40. Ibid, Vol III, No 1, 1946, 160 pp, 13 rubles 50 kopeks.
Eight articles on structural mechanics, instrument construction, aerodynamics and hydromechanics.
41. Ibid, Vol III, No 2, 1947, 152 pp, 11 rubles 50 kopeks.
Ten articles mainly on structural mechanics.
42. Ibid, Vol IV, No 1, 1947, 197 pp, 15 rubles.
Eleven articles on critical flutter speed of airplane wings, analysis of rigidity of flat coverings, etc.
43. Ibid, Vol IV, No 2, 1948, 194 pp, 15 rubles.
Contains articles on first model of Gagarin's crusher press, forms of equilibrium for compressed-bent thin strips, etc.

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44. Ibid, Vol V, No 1, 1948, 197 pp, 14 rubles.

Contains 14 articles on experimental research on mechanical properties of metals, etc.

45. Krylov, A. N., Acad, "Collection of Works" (Sobraniyetrudov), Vol IX, Part I, Theory of Ships, 1948, 398 pp, 27 rubles; Vol X, Vibration of Ships, 1948, 398 pp, 25 rubles.
46. Nekrasov, A. I., "The Theory of Wings in Nonstationary Flow" (Teoriya kryla v nestatsionarnom potoke), 1947, 258 pp, 15 rubles.

Power Engineering (Combustible Minerals)

47. Agroskin, A. A., "Increasing Granular Weight of Coal by Micro-Addition of Hydrocarbonic Liquids" (Uvelicheniye nasypnogo vesa uglya mikrodozvavkami ugle vodorodnykh zhidkostey), 1947, 400 pp, 20 rubles.
48. Baturin, V. P., "Petrographical Analysis of the Geological Past According to Terrestrial Components" (Petrograficheskiy analiz geologicheskogo proshlogo po terrigennym komponentam), 1947, 340 pp, 21 rubles.
49. Bolotov, V. V., "Theoretical Basis for Selecting Efficient Operation of a Complex Electrical Power System" (Teoreticheskiye osnovy vybora ekonomicheskogo rezhima slozhnoy elektroenergeticheskoy sistemy), 1947, 272 pp, 18 rubles.
50. "Bulletin of the Committee for Gas-Powered Equipment" (Byulleten' komissii po gazosilovym ustanovkam), No 2, 1947, 52 pp, 3 rubles.50 kopeks.
51. "News of the Power Engineering Institute Imeni G. M. Krzhizhanovskiy," (Izvestiya energeticheskogo instituta im. G. M. Krzhizhanovskogo), Vol XII, 1944, 119 pp, 10 rubles.
52. Kostenko, M. P., Corr Mem, Acad Sci USSR, Neyman, L. R., Dr Tech Sci, and Blavdzovich, G. N., Engr. "Electromagnetic Processes in Systems With Heavy-Duty Rectifier Units" (Elektromagnitnyye protsessy v sistemakh s moshchnymi vypryamitel'nymi ustanovkami), 1946, 108 pp, 10 rubles.
53. Melent'yev, L. A., "Thermification" (Teplofikatsiya), Part II, 1948, 276 pp, 16 rubles.

Theoretical principles in construction and operation of district heating systems.

Water Economy Problems

54. Potapov, M. V., Corr Mem, Acad Sci Belorussian SSR, "Control of Water Flow by Method of Artificial Cross-Circulation" (Regulirovaniye vodnykh potokov metodom iskusstvennoy poperechnoy tsirkulyatsii), 1947, 76 pp, 4 rubles.
55. Potapov, M. V., Pyshkin, B. A., "Method of Cross Circulation and Its Utilization in Hydraulics" (Metod poperechnoy tsirkulyatsii i ego primeneniye v gidrotekhnike), 1947, 148 pp, 8 rubles.
56. "Problems on River Flow Control", (Problemy regulirovaniya rechnogo stoka), Vol I (1947, 132 pp), II (1948, 140 pp), III (1948, 165 pp), 7, 9, and 9 rubles, respectively.
57. Savarenskiy, F., Acad, and Afanas'yev, T., "Water Resources of the Middle Volga Region and Their Utilization" (Vodnyye resursy srednego Povolzh'ya i ikh ispol'zovaniye), 1946, 52 pp, 5 rubles.

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58. "Reports of First Conference on Flow Control" (Trudy pervogo soveshchaniya po regulirovaniyu stoka), 1946, 248 pp, 20 rubles.
59. "Reports of First All-Union Conference on Surveying and Utilization of the Water Resources of Small Basins" (Trudy pervogo vsesoyuznogo soveshchaniya po issledovaniyu i ispol'zovaniyu vodnykh resursov malykh basseynov), 1948, 118 pp, 6 rubles.

Miscellaneous

60. Voronin, V. N., and Voronina, L. D., "Instruction on Ventilation of Refined Products" (Instruktsiya po provetrivaniyu ochistnykh vyrabotok), 1946, 108 pp, 6 rubles 50 kopeks.
61. Dobrevol'skiy, G. V., Dr Tech Sci, "Steady-State Processes in Electric Circuits and in Four-Terminal Networks" (Ustanavlivayu-shchiyesya protsessy v elektricheskikh tsepyakh. Ustanovlivayu-shchiyesya protsessy v chetyrekh-polyusnikakh), 1948, 98 pp, 7 rubles 50 kopeks.

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